

FIG. 1

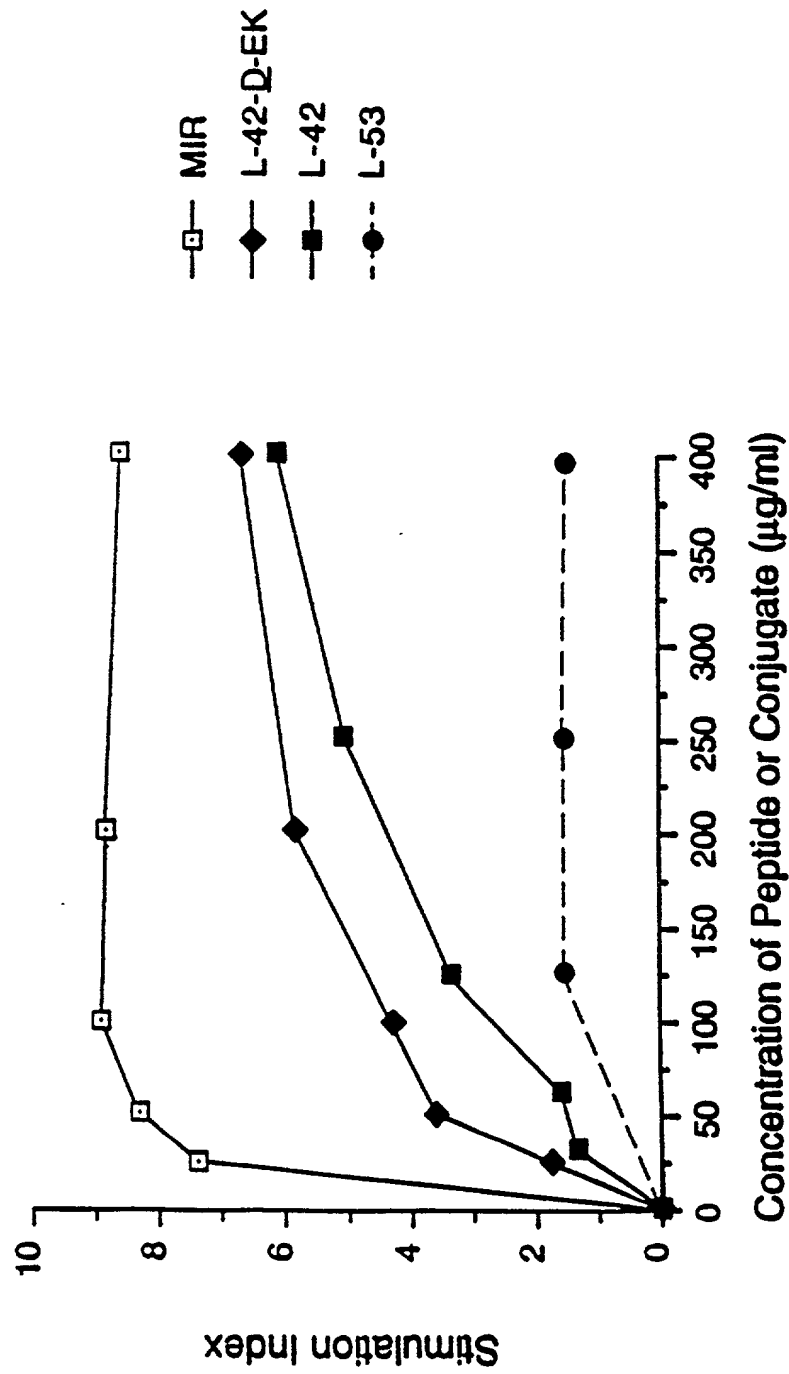
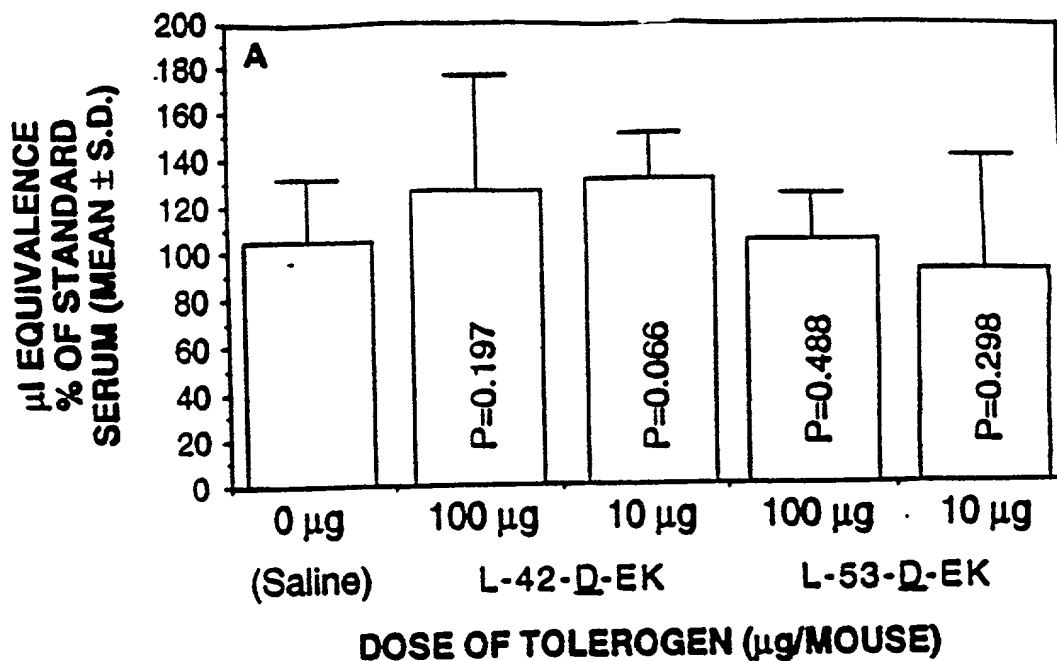
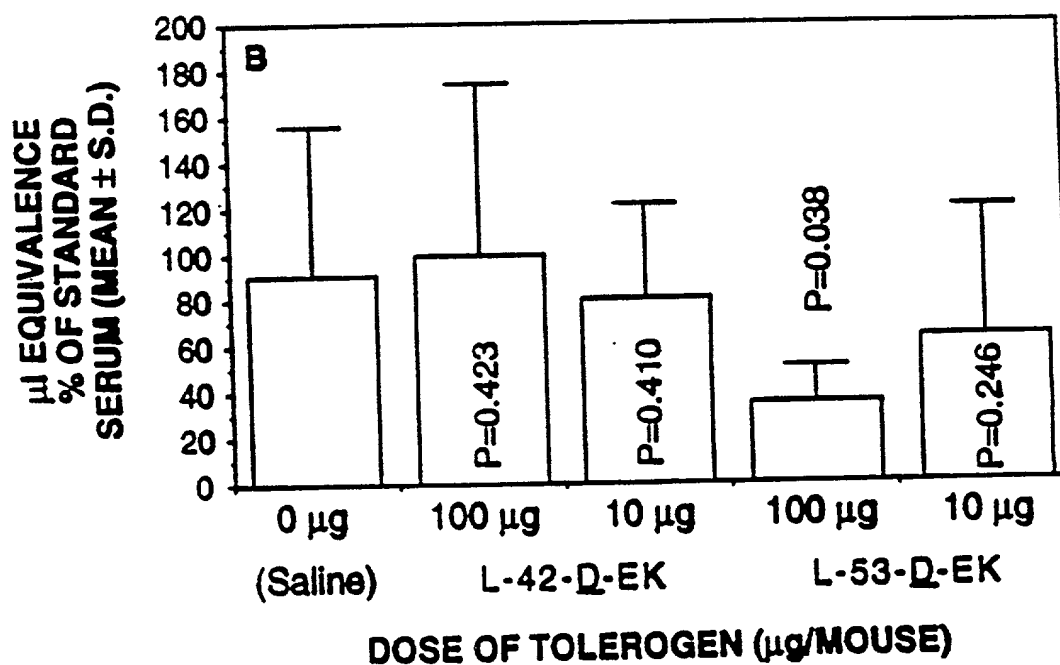


FIG. 2



**FIG. 3A**



**FIG. 3B**

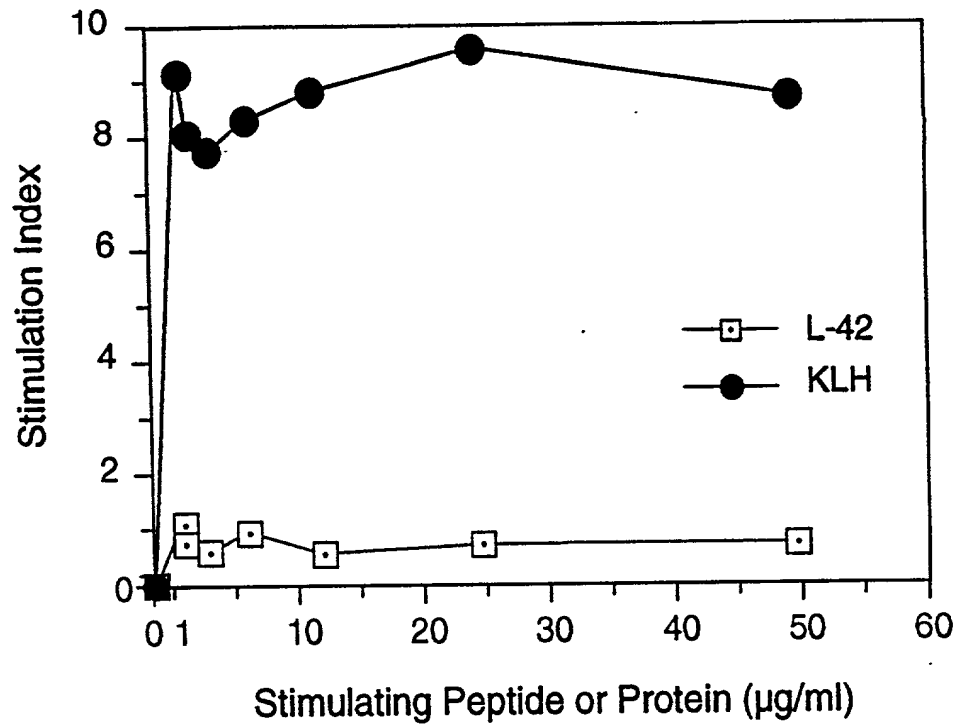
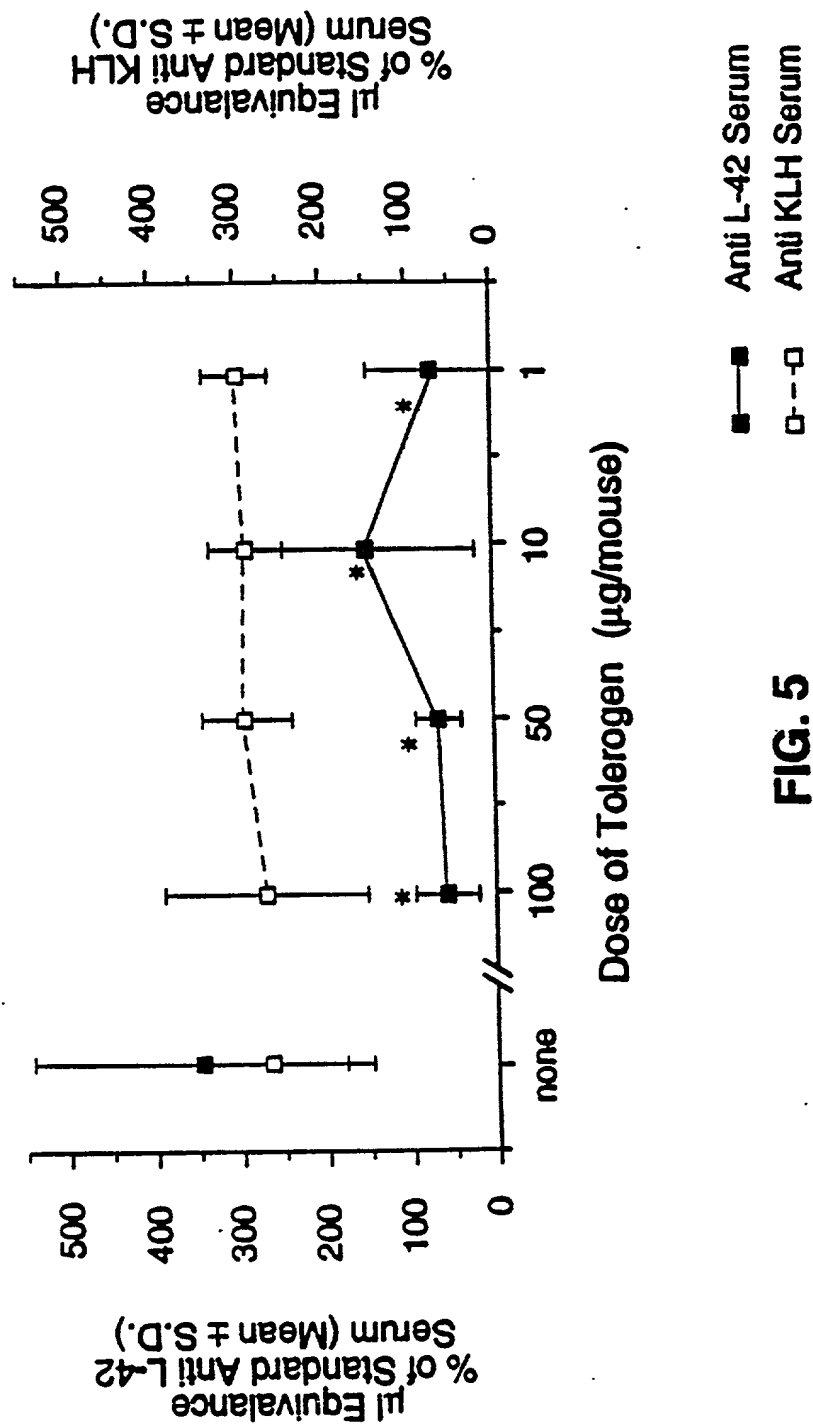


FIG. 4



## T Cell Proliferation Induced by Mellitin Peptides

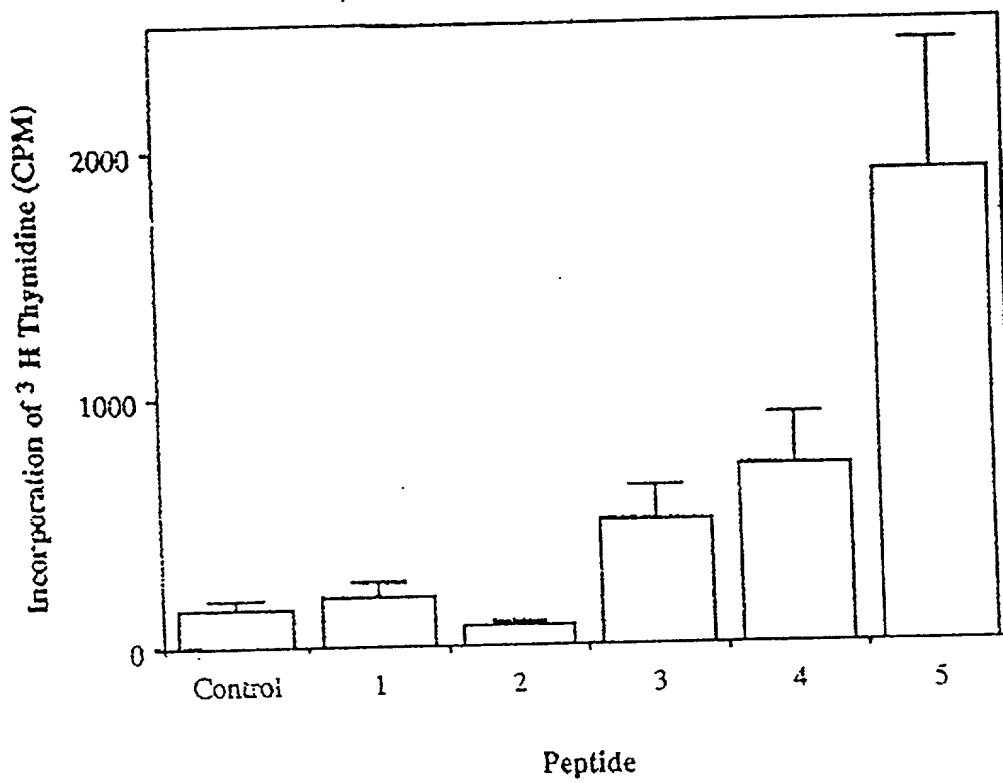


FIGURE 6

IgG serum circulating Ab to melittin peptide 2

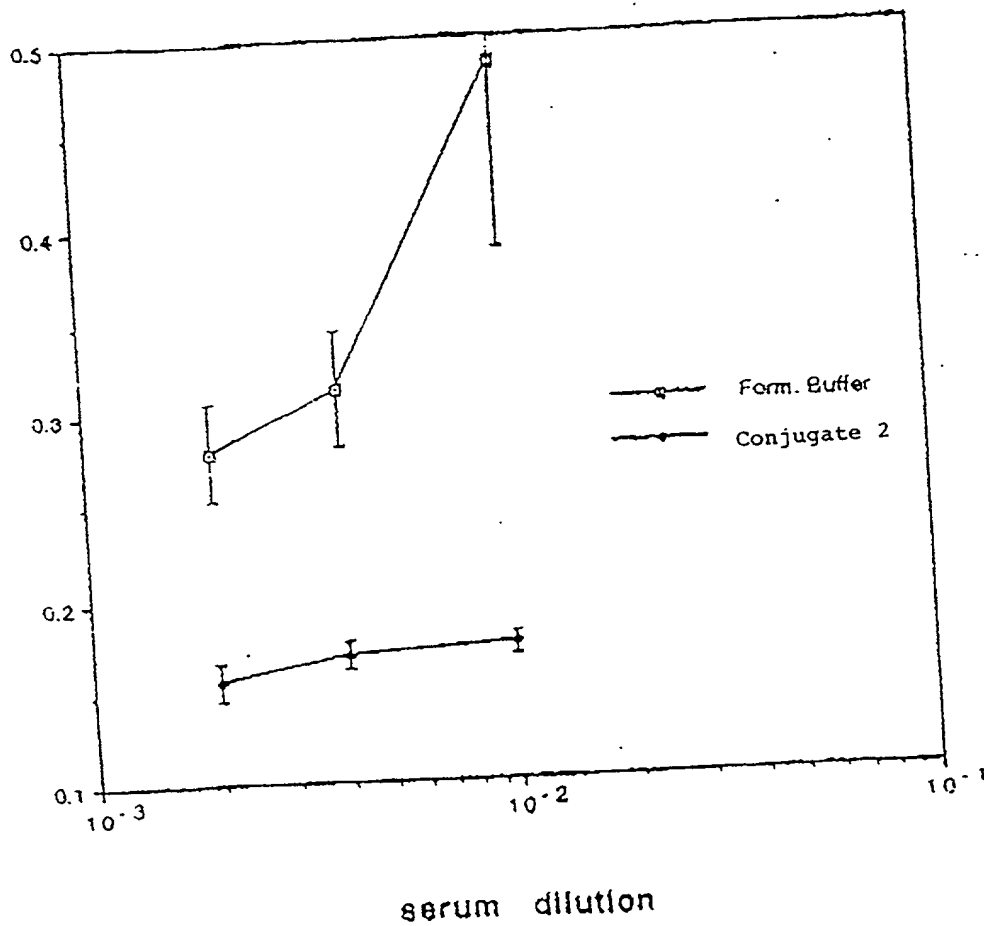


FIGURE 7

IgG serum circulating levels to Melittin

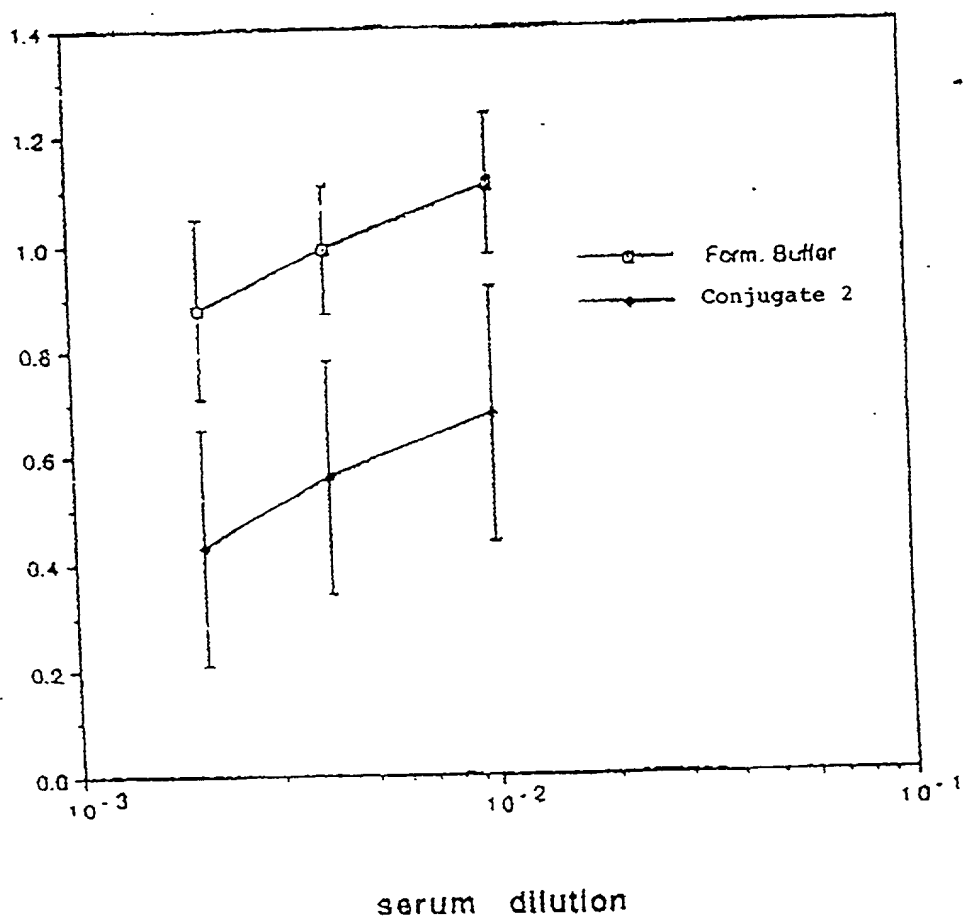
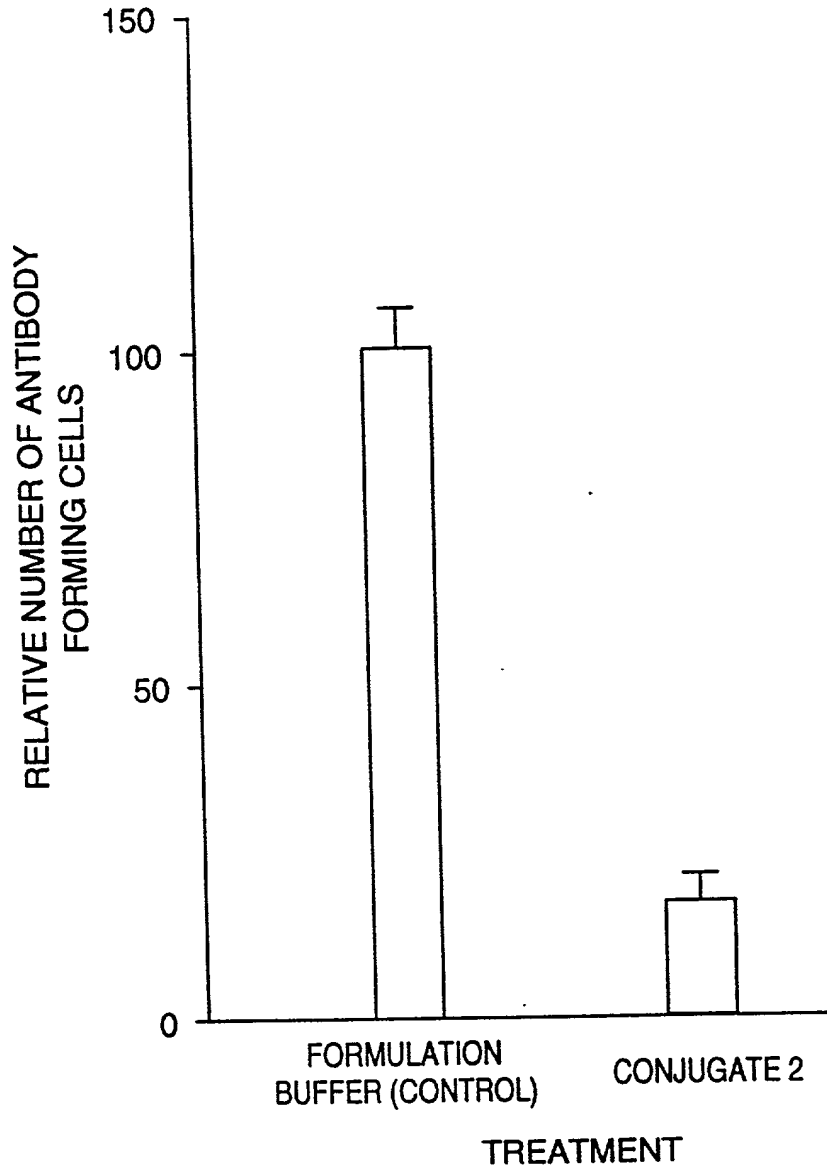


FIGURE 8





**FIG. 9**

IgG serum circulating Ab to Peptide 5

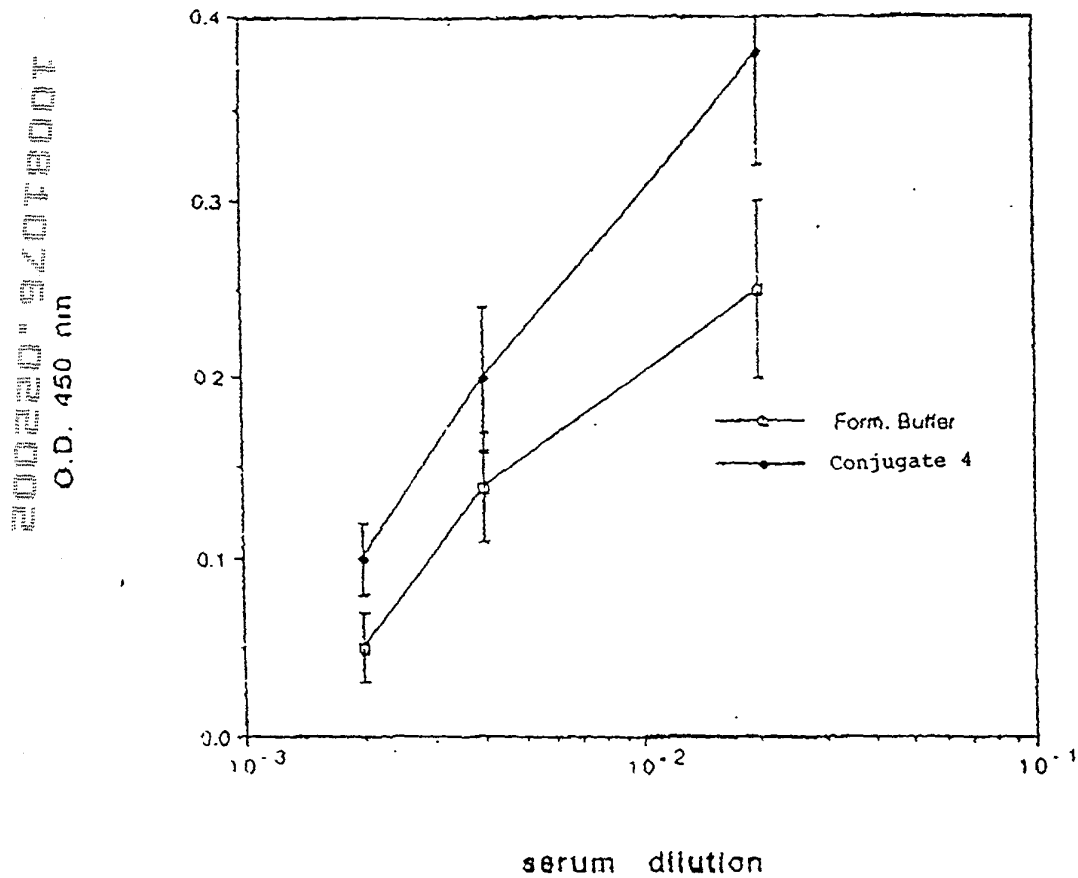
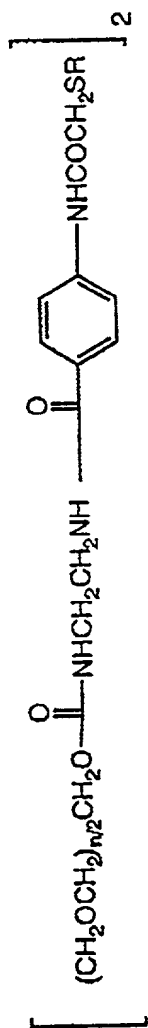


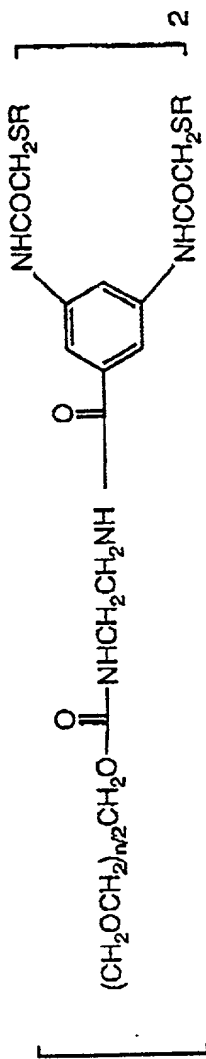
FIGURE 10

# Melittin Peptide Conjugates



Melittin Conjugate # 1, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Lys-Gln-Gln-Lys-Cys-Gly-CO<sub>2</sub>H

Average n = approx. 74



Melittin Conjugate # 2, R = H<sub>2</sub>N-Cys-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 3, R = H<sub>2</sub>N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 4, R = H<sub>2</sub>N-Cys-Ile-Ser-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Gly-CO<sub>2</sub>H  
 Melittin Conjugate # 5, R = (H<sub>2</sub>N-Trp-Ile-Lys-Arg-Gln-Gln)<sub>2</sub>-Lys-Cys-Gly-CO<sub>2</sub>H

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74

FIGURE 11